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120-10

ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 120-10 is an electrically conductive ink, coating and adhesive suitable for application by stamping, screen-printing, dipping and syringe-dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 120-10 include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, and anode coatings for tantalum capacitors. 120-10 is a version of 119-50 formulated for greater thixotropy.

TYPICAL CURED PROPERTIES:

Consistency	Smooth Paste
Filler	Silver
Percent Filler, cured	84
Crease Resistance	Excellent
Volume Resistivity (Ω -cm)	0.00005
Sheet Resistivity (ohm/sq./mil)	0.02
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +200
Thermal Stability ($^{\circ}$ C)	Good to 325

SUGGESTED HANDLING & CURING: 120-10 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner 120-01. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for several minutes at 170 $^{\circ}$ C to 180 $^{\circ}$ C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50 $^{\circ}$ C to 150 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life - 6 months at 25 $^{\circ}$ C; or 9 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ C.

SAFETY & HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.